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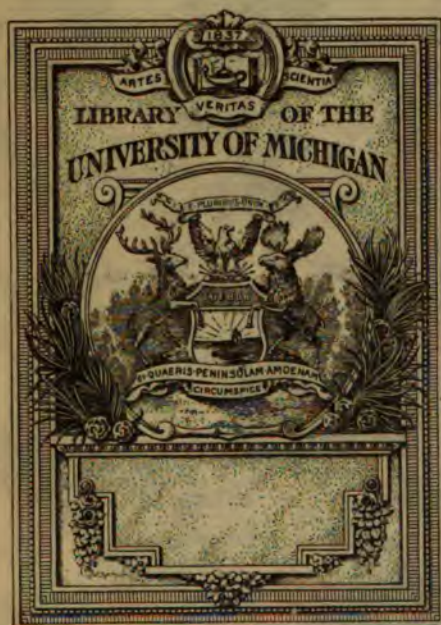
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INSTRUCTIONS AND REGULA-
TIONS OF A COMPETITION *for the*
SELECTION OF AN ARCHITECT
and the PROCURING OF A GENERAL
ARCHITECTURAL PLAN *for the*
WESTERN UNIVERSITY OF PENN-
SYLVANIA *in the* CITY OF PITTS-
BURGH, PENNSYLVANIA



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Part One • GENERAL STATEMENT

¶ 1. THE WESTERN UNIVERSITY OF PENNSYLVANIA, founded in 1787, is now conducting its several departments of instruction in various parts of Pittsburgh and the former city of Allegheny, the greater number of its buildings being in the latter. New buildings are required and the University has secured a tract of about forty-three acres in the Oakland district of Pittsburgh near Schenley Park upon which it will place these new buildings as the nucleus of a future University group, to be complete save as to the Observatory, which will remain at its present location in Riverview Park.

¶ 2. TO PROCURE A PLAN FOR THIS FUTURE ARCHITECTURAL development and to select an architect to design and supervise the construction of its first building, known herein as the School of Mines Building, the Executive Committee, acting under authority given it by the Board of Trustees, has established this competition and appointed Warren P. Laird, Professor of Architecture in the University of Pennsylvania, Philadelphia, as its consulting architect, to prepare this program and act as adviser in the conduct of the competition.

¶ 3. THE EXECUTIVE COMMITTEE IS COMPOSED AS follows:

Chancellor S. B. McCormick, ex officio,
George H. Clapp, Chairman,
Benjamin Thaw,
John A. Brashear,
T. H. B. McKnight,
A. J. Kelly, Jr.,
J. B. Eisaman,
W. L. Scaife,
S. B. Linhart, Secretary,

together with the following Trustees:

S. A. Taylor,
C. F. Scott.

Part Two • THE PROGRAM

¶ 4. THE TERMS OF THIS COMPETITION ARE SET FORTH in this program, which constitutes an agreement between the Committee on the one hand and each competitor and the appointed architect, severally, on the other; to which agreement each architect gives assent by submitting designs in competition.

¶ 5. THESE TERMS MAY BE MODIFIED, BUT ONLY IN those respects which seem to the committee to be unimportant and additional information will be issued as necessary. Particularly may the latter be required in the case of the School of Mines Building. Additional information may be sought only of the adviser and no inquiries are to be made either verbally or in writing of any person connected with the University, whether member of the board, the committee, the faculty or otherwise. All communications must be in writing and should be anonymous. Replies will be sent in writing by the committee simultaneously to each competitor and will thereupon become an essential part of this program. Competitors will be those architects who are especially invited or are admitted, in writing, by the committee. No communications received after March 7th will be considered. (See NOTE following Sec. 56.)

¶ 6. AS USED IN THIS PROGRAM, THE TERM "ARCHITECT" or "author" means the single competitor, whether architectural firm or individual practitioner; "committee" means the Executive Committee of the Board of Trustees and two Trustees as named in Sec. 3; and "the architect" or "the appointed architect" means the architect awarded the prize of the competition and appointed as architect of the School of Mines Building under the terms of this program.

¶ 7. THE PLAN OF SITE AND SCHEDULE OF CHARGES of the American Institute of Architects referred to in this program, form an essential part of it. The photographic views of site and surroundings are provided for the convenience of competitors. Certain tracts not shown in drawing "B", as part of the "University Site", are to be treated in the group plan as though University property, viz, "A", "B" and "A2".

Part Three • THE COMPETITION

¶ 8. TWO ARCHITECTS HAVE ACCEPTED THE INVITATION of the committee to submit designs in the competition; viz, Messrs. Lord & Hewlett and George B. Post & Sons. The committee reserves the right to fill the place of either of these architects in the event of his withdrawal from the competition.

¶ 9. THE COMMITTEE DESIRES ALSO THE PARTICIPATION of other architects of good professional standing and of experience in the execution of large work. Those who may wish to take part are requested to apply for admission upon blank forms to be had upon application to Dr. S. B. Linhart, Secretary, 802 Home Trust Building, Pittsburgh, Pa., and the committee will extend to approved applicants an invitation to submit designs.

¶ 10. FOR THEIR SERVICES IN SUBMITTING DESIGNS IN this competition, a fee of one thousand dollars (\$1,000.00) will be paid to (a) each of the above-named two especially invited architects, (b) to that Pittsburgh architect whose design ranks highest in merit, and (c) to those three remaining architects, regardless of locality, whose designs rank highest in merit, all ranking to be as shown in the adviser's report.

¶ 11. THE PRIZE OF THE COMPETITION WILL BE THE commission to design and supervise the construction of the building to be the first constructed, known as the School of Mines Building. This will form a portion of the building or group of attached buildings to be designed for the School of Mines and its cost and detailed requirements are elsewhere stated. This prize will be awarded to that competitor whose design is designated by the committee as "premiered", as provided in Sec. 28 of the program.

¶ 12. BUT WHILE THIS IS THE ONLY COMMISSION ASSURED to the successful competitor, it is probable that the University will also place in his hands certain other buildings whose construction is hoped for at a comparatively early period. And since it is obvious that the general plan scheme can best be carried into effect by its author, he would be the logical selection of the University, in the future, for this purpose.

¶ 13. WHILE FOR THE GROUP PLAN A CAREFULLY STUDIED general scheme only is expected, it will be necessary to produce

for the School of Mines Building a design so carefully developed in the competitive drawings that it may at once be carried forward into working drawings and specifications without essential change of scheme or principal structural lines. This is necessary because no time can be allowed for re-study (see Sec. 46). For this reason the general arrangement of the building is suggested in a diagram appended to the program, but this is to be regarded less as a pre-determined plan than as a guide to what the committee believes will be the best general scheme of the building.

¶ 14. THE VIEWS OF THE COMMITTEE WILL BEST BE met by a design in which maximum efficiency, possibility of growth, adaptation to climate and environment, and minimum cost of construction and maintenance and operation,—are combined with the most artistic and appropriate architectural details and ensemble. In the matter of architectural treatment the committee entertains no preferences as to historical style, believing only that the group should have an aspect expressive of its purpose and consistent with the peculiarities of its site, material and use. A tower may be included in the composition, but must not be required to provide any of the accommodations here demanded. In view of the delay and difficulty in securing the construction of such a feature, the committee will be less disposed to regard with favor a design to whose completeness it is absolutely essential, than one less dependent upon it for effect.

¶ 15. IT IS TO BE DISTINCTLY UNDERSTOOD THAT THIS competition has for its purpose not only the selection of an architect for the School of Mines Building, but the procuring of a general plan. Hence it is agreed that the premiated design of the general plan, including all its drawings, shall belong to the Western University of Pennsylvania, which shall have the right to use such design and drawings at its discretion; this ownership and right to cover also the design as re-studied.

¶ 16. THE NUMBER AND KIND OF DRAWINGS AND THEIR scale, rendering, presentation, etc., are to be as follows:

¶ 17. THE GROUP. THIS IS TO BE PRESENTED IN (a) A plan which need not comprise more than the site and its closely adjoining territory and which is to show buildings in block plan only, that is to say, without any internal divisions; (b) elevations, not more than two, taken from any standpoint; and (c) sections taken through the group, not more than two, showing in elevation at least

those buildings lying nearest the plane of intersection. Plan, elevations and sections are to be drawn at a scale of sixty-four feet to the inch.

¶ 18. THE SCHOOL OF MINES BUILDING. THIS IS TO BE shown in (d) a plan of each floor; (e) two elevations; and (f) one section, the principal elevation to be at the scale of sixteen feet to the inch and the remaining drawings at the scale of thirty-two feet to the inch.

¶ 19. RENDERING. PLANS ARE TO HAVE HORIZONTAL intersections blacked in or tinted; lettering and the outlines described below may be shown in red, but otherwise the only color to be employed throughout the drawings is to be a single monotone, and gold is not to be used in any way. Shadows, cast at an angle of 45 degrees with horizontal and vertical planes, may be shown in any drawing. In the School of Mines Building, treatment of floor and ceiling surfaces and installation of apparatus and furniture may be indicated. A single human figure five feet eight inches high should be drawn against each elevation to show its scale. The rendering of group drawings (a), (b) and (c) may be as complete as desired, but should be very simple; and there are to be upon the drawings for the School of Mines Building (d, e and f) no accessories of any kind, whether of natural or architectural scenery, save only as above specifically permitted.

The group plan is to show all future extensions to buildings in dotted or red outline, clearly drawn, but not having the enclosed area blacked in or tinted as required for the buildings proper.

All other drawings (b, c, d, e and f) may, if desired, also show any proposed future extensions indicated in the group plan, but this must be done only in a dotted or red outline of the silhouette or outer edge of such extensions.

The School of Mines Building. In the group plan and its elevations and sections (a, b and c) the School of Mines Building (to wit, that section of the complete future group or building for the School of Mines first to be constructed) should be distinguished by lettering and a clearly drawn outline, but it should not be so rendered as to attract especial attention.

The outlines of tracts A, B and A2 need not be shown on the drawings as they will be determined by the committee through a key plan.

¶ 20. LEGEND. THERE ARE TO BE WRITTEN ON THE plans, as space may permit, the names of buildings or divisions of

the group, and of rooms with their dimensions and area, and in the section (f) its story-heights from floor-top to floor-top. The topographical elevations at important points should be indicated in the group section (c). If any title is placed upon the drawings it shall be "Competition of the Western University of Pennsylvania", and only such other words as may be necessary to designate divisions or buildings of the group, rooms and stories and their purposes and dimensions, drawings and their parts and the scale to which they are drawn. Simple lettering and not script is to be employed throughout all drawings for words and figures.

¶ 21. PRESENTATION. DRAWINGS ARE TO BE PRESENTED on Whatman or similar white paper, in sheets not over thirty by thirty-six inches (30 x 36") in size, one or more drawings to each sheet.

¶ 22. DESCRIPTION. A DESCRIPTION, WHILE NOT DESIRED by the Committee, may accompany each design, explaining any of its features which cannot be included or clearly indicated in the drawings. If offered, it should particularly explain the manner in which the demands of this program are provided for where such provision cannot be shown in the drawings. The description should be very brief, printed or typewritten on one side of the sheet, in the first person plural, and care should be taken to avoid enclosing it in the sealed envelope containing the author's name.

¶ 23. GENERAL. NO COMPETITOR MAY SUBMIT MORE than one design; flaps and alternative drawings are not permitted; no design is to be accompanied by drawings, diagrams, models or any means of illustration other than those called for by this program, and the required drawings, both as to number and kind and character of drawing, rendering and presentation, and the description, must conform strictly to the program requirements.

¶ 24. ANONYMITY OF AUTHORSHIP. NO NOM DE PLUME or symbol or any other identifying name or mark is to appear upon the wrapper in which designs are delivered nor upon any of its contents save within the sealed envelope as provided. Nor shall any competitor, either directly or indirectly, reveal the identity of his design to, or seek to influence in his favor, the adviser or any member of the board or the committee.

¶ 25. DELIVERY OF DESIGNS. THE DRAWINGS, UNMOUNTED, are to be enclosed in portfolios or stiff boards or rolled in strong tubes not less than three inches in diameter, securely wrapped

and addressed to Professor Warren P. Laird, Room 305 College Hall, University of Pennsylvania, Philadelphia, Pa. In the wrapper with the design is to be enclosed its description; also a card bearing the name of its author, sealed in a plain opaque envelope addressed in typewriting to the committee. The designs thus prepared and addressed are to be delivered to the adviser at his office at the above address, not later than twelve o'clock noon on Saturday, March 28th, 1908. Packages sent by express and otherwise not by messenger, should be shipped in time for the last delivery on Friday, March 27th to avoid risk of delay.

¶ 26. RECEIPT OF DESIGNS. DESIGNS SO DELIVERED will be removed from their wrappings by an assistant to the adviser, and the adviser will then receive and give to each and to its description and sealed envelope a number by which they will be known until after the awards have been made. The sealed envelopes will then forthwith be placed in the custody of the secretary of the committee and will not be opened until after the awards have been determined as provided in Sec. 28. The adviser will then examine the designs, and any whose drawings or description do not conform to the program will, upon his recommendation, be placed out of competition by the committee.

¶ 27. JUDGMENT. THE ADVISER WILL THEN EXAMINE the remaining designs and will select that one which in his opinion gives promise of the best result when carefully studied and developed in all its parts and details, and will recommend it to the committee for their choice as the "premiated design." In making this selection, the adviser will hold that the design defines the professional and artistic capacity of its author for dealing with this especial problem, as it may be regarded from all points of view, contemplating the composition of the group as of importance paramount to the treatment of the School of Mines Building. The adviser will then place the remaining designs in the order of their merit and will report such rating to the committee. In this rating the design recommended by him for the committee's choice as the "premiated design" shall rank first. The recommendation as to the design placed first and report as to the other selected designs, together with any comments, shall constitute the report of the adviser to the committee.

¶ 28. AWARDS. THE COMMITTEE WILL THEN, AFTER careful consideration of the aforesaid report and after examination of all of the designs with the adviser's assistance, take action by selecting that design which may in its opinion be best and will design-

nate said design as "premiated"; will thereupon open the envelope containing the name of its author and will forthwith award him the prize of the competition by designating and appointing him the architect of the work described in Sec. 44 of this program. The committee will then open the remaining envelopes and will award to that Pittsburgh architect whose design ranks highest in the adviser's rating a fee of one thousand dollars (\$1,000.00) and also to those other three architects, regardless of locality, but exclusive of the two especially invited architects, whose designs rank highest in the adviser's rating, a like fee of one thousand dollars (\$1,000.00) each. The award of the prize and the fees as above will be made at a regular session of the committee or a session called especially for the purpose, and a majority vote shall be final and binding in establishing the said awards. It is intended to make the awards not later than April 11th, 1908.

¶ 29. PAYMENTS. WITHIN THIRTY DAYS AFTER THE MAKING of the awards there will be paid to the appointed architect fifteen hundred dollars (\$1,500.00) on account of his fee as architect of the work and to the remaining architects the competitive fees provided in Sec. 10. The payment to the appointed architect above provided for shall be understood to be in lieu of any competitive fee due him.

¶ 30. RETURN OF DESIGNS. FOLLOWING THE AWARDS, the committee will forthwith return to their authors the unaccepted designs and will make no use of them nor of anything contained in them which is original as to this competition without proper compensation to its author. None of the unaccepted designs will be exhibited to the public nor to any other competitor without the written consent of its author. The action of the committee in the selection and appointment of an architect will, together with the report of the adviser, be communicated to all competitors with the return of unaccepted designs.

¶ 31. DEBARMENT. THE PRIZE OF THE COMPETITION will not be awarded to the author of any design in which the design for the School of Mines Building exceeds in its cubage the limit fixed in Sec. 44, computed as described in Sec. 33, or whose total capacity in square feet net is less than that called for in Sec. 44.

¶ 32. FORFEITURE. ANY COMPETITOR WHO VIOLATES the provisions of Sec. 5, 23 or 24, or whose drawings are delivered after the time set for their receipt (Sec. 25), will be excluded from

competition and will thereupon forfeit any claim upon the Committee for compensation. This penalty may be imposed at any time, inclusive of that at which the sealed envelopes are opened.

¶ 33. COMPUTATIONS. ALL COMPUTATIONS ON THE School of Mines Building will be made by two competent architects, not competitors, engaged by the committee for this purpose. Cubage will be computed within the outer-face line of all outer walls, measured on the plane of that lowest story standing entirely above ground, between a plane five (5) feet below the basement floor level (to cover the mean of the cellar, unfinished) and the mean of the roofs, and will comprise all buttresses, porches, porticoes to the outer-face line of columns or piers, and any other feature, adding appreciably to the bulk of the building.

¶ 34. ARBITRATION. IN THE EVENT OF DISAGREEMENT between the committee and any competitor or the appointed architect, either during or subsequent to the competition, upon any of the provisions of this program, all parties at interest hereby agree to accept the adviser as arbitrator and his decisions as final.

Part Four • THE PROBLEM

¶ 35. THE FUTURE ORGANIZATION OF THE UNIVERSITY cannot be stated in other than very general terms, nor can the extent or direction of growth in any of its departments be predicted. It is therefore necessary that the plan scheme be adaptable to changing conditions which may show themselves, with respect to any department or a portion of it, in (a) unequal growth of parts; (b) introduction of new subjects of instruction or functions of administration, and (c) change of location from one building to another. This requires provision in the plan for the expansion of all buildings and groups without resulting congestion.

¶ 36. THE PLAN IS TO DETERMINE PRIMARILY THE Arrangement of buildings into groups forming an organic whole. One of these buildings, that for the School of Mines, will be immediately constructed and its position and that of the group to which it will belong will thus become at once fixed. Provision is elsewhere made for a re-study of the general plan, but as this will not take place until after the construction of the building named, it cannot afford opportunity for sweeping or fundamental changes in the scheme. This must, therefore, be regarded in its competitive form as presenting essentially the final judgment of its author.

¶ 37. REGARDING THE DISTRIBUTION OF BUILDINGS (listed in the subjoined table) it may be said that the Professional Division (q) will have a less close relation to that of the Liberal Arts and Sciences (m) than will Philosophy (o) and Technics (p). But it may be found an advantage to so relate the Professional Division to the buildings for Chemistry, Physics and Biology (m 2, 3 and 4) that they will be equally convenient to students both in the Liberal Arts and Sciences, in the Professional Division and the School of Mines and of Engineering (p 4 and 5). In such case the Laboratories of Chemistry would best take form in a group of three buildings: one for the College of Arts (m 1) and the Engineering Departments; one for the Departments of Medicine, Pharmacy and Dentistry (q 2, 3 and 4), and one for Research and Administration, the space proportions of which are shown in the table (m 2).

¶ 38. THE TRACTS "A" AND "B," LYING NORTHWARD OF the "University Site" and "A2" adjoining it on the southwest, while

not now available for building purposes, may be employed in the group plan for any of the following buildings or features: The Assembly Halls (b), departments of Philosophy (o), Finance and Commerce (p 1), Pedagogy (p 2), Fine Arts (p 3), future building (m 5), Chapel (h), Club Houses (i) and the Garden (l), if it is not attached to "a" or "m". Any of these, however, may be placed on the "University Site". But the following must be placed on tracts "A", "B", or "A2", to wit: The Women's College Division (n) and future dormitories (g).

While buildings placed upon Tracts "A", "B" and "A2" may extend into the "University Site" competitors will realize that buildings required on the latter, if extended into the former, may cause a disadvantage in actual construction, through the necessity of additional land purchase thus created.

¶ 39. THE PRINCIPAL ARTERIES OF APPROACH TO THE University from the city will be Fifth Avenue, Forbes Street and Center Avenue, the last named being less important than the others.

From the business district the approach is from the southwest and from the residence district it is from the east and northeast.

The best views, looking away from the site, are from east southward around to southwest, through nearly half the compass, over a considerable distance.

The winds of all seasons generally prevail from the west and southwest.

It is believed that the best gradients for a vehicle approach to the upper levels of the site will be found by way of De Soto Street. Adequate provision of roadways and other thoroughfares is required both for pleasure vehicles, service wagons and pedestrians and it is desired that attention be given to the possibility of including the elevator among the means of travel, for pedestrians, between the upper levels of the property and its approaches. Coal and other supplies must be conveyed to the grounds by wagon. All streets lying entirely within the full area of the site (comprising tracts "A", "B" and "A2") may be treated as though vacated, but a convenient right of way, suitable for vehicles, between Breckenridge Street and that part of Berthoud Street lying southwest of the "University Site" should be found through the site.

¶ 40. THE HEIGHTS OF BUILDINGS GENERALLY SHOULD not exceed four stories, including a basement, those on sloping ground preserving as nearly as possible an average of this number. Dormitories should have four stories and are not to exceed five. Shops

and largest lecture rooms, generally speaking, will be two stories in height with no rooms overhead. Story heights, floor to floor, may be taken at ten feet for dormitories and fifteen feet for other buildings, but this is only approximate and is stated for the determination of elevations in the group study. More specific requirements are given for the School of Mines Building in Sec. 44. Buildings must be so placed as to secure good light. A sufficient light for any building will be one unobstructed within a plane lying at forty-five degrees with the intersection of the basement floor level with its outer wall. Basement window sills should in no case be below grade level. The grounds should have suitable architectural landscape treatment.

To connect two or more buildings related to each other into one structure, where not suggested in the program, will not violate the instructions, but it would create a problem in building operation perhaps more difficult to solve than that of isolated structures, and hence possibly counting in the judgment against the design presenting it.

As regards the relation between the space demands of the program and the available building area of the site, it is realized that the nature of the site will necessitate a great deal of terracing to permit its full use and that such operations must cover all the site save small portions where the cost would be so far out of proportion to the value of the redeemed area as to make terracing impracticable.

Therefore some portion of the total area of approximately 55 acres is not available. The total ground area asked for in buildings is somewhat over thirteen acres (under 600,000 square feet) in addition to which the full allowance asked for to cover probable expansion is about two and one-half acres—a total of not over sixteen acres. To this must be added one or more acres required for gardens, etc.

In studying the plan arrangement under these conditions it is to be observed both that the program allows a reduction in building areas of not to exceed ten per cent. and that the expansion to be provided for is in the nature of things only approximate, being stated as "probable." Therefore while it is vital that there should be a suitable arrangement of buildings of kind, number and minimum area asked for, the nature of the site must influence the actual space available for expansion.

¶ 41. THE FOLLOWING TABLE PRESENTS A LIST OF THE buildings and other parts required, states their purposes and general content; the area, in square feet (or acres where so stated), which they will occupy on the ground and the proportion of this to be

allowed for their probable expansion. While all these areas are to be considered as approximate, they cannot in any case be reduced by more than ten per cent. (10%) without injury. While, on the other hand, they may be increased with advantage, this increase should be especially sought where asked for. Buildings and other functions required in the plan will be found grouped in the table under three heads: FIRST, those for the general use of the University; SECOND, those pertaining to the several departments of instruction, and THIRD, those needed for the School of Mines as shown in detail, all as follows:

¶ 42. FIRST.

	Ground Area Desired.	Ratio of Future Growth.
(a) Administration; with business rooms for officers and clerical staff, and meeting rooms for Trustees, Faculties, etc. Quarters for caretaker. One building	5,000	None
With this may be combined the Assembly Halls (b) in a single building.		
(b) Assembly Halls, two; for commencement exercises, alumni gatherings, mass meetings, public lectures, class functions, etc., one of 12,000; one of 5,000; one or two buildings; may, however, be combined with administration (a) in a single building	17,000	None
(c) Library; for reference works and special collections. The proximity of the Carnegie Library and existence of working libraries in departmental buildings renders a large University library unnecessary. One building	8,000	20%
(d) Museum; for special collections, generally for the use of the technical departments. Considerations such as those affecting the library will make this also a relatively small single building.	8,000	20%
(e) Gymnasium; with training quarters; to comprise a complete equipment for a department of Physical Education and offices for the association in charge of university athletics, 50% increase desired, 20% required; area	10,000	20% -
(An athletic field will not be included in the plan scheme).		
(f) Residence; (1) Dormitories, in a group composed on the small quadrangle principle (100 to		

	Ground Area Desired.	Ratio of Future Growth
150 men and a dining hall or "commons" to each "house", which will surround three sides of a small quadrangle; that is to say, the "houses" should form a single homogeneous group so composed as to create small quadrangles closed on three sides and open on the fourth). (2) Dwelling for superintendent of grounds and buildings (dwellings for Chancellor and Faculty are not to be included in the plan scheme); area, exclusive of quadrangles	100,000	None
(g) Additional dormitories for future construction of at least equal area and on the same plan are to be provided on tracts "A", "B" or "A2"	100,000	None
(h) Chapel. Either combined with or placed near the dormitory system, or to form part of the Administration group	8,000	None
(i) Club Houses. One for students; such as the Houston Club House of the University of Pennsylvania or the Union at Harvard; 6,000. One for the Faculty, 3,000. The first convenient to dormitories, the second to Administration or the Liberal Arts Division. Two buildings	9,000	30%
(k) Power Plant; light, heat and power for entire institution; workshops, storehouse, fire department house, gardener's house with implement room included or attached, carriage house, etc. Six or eight buildings, not necessarily to be grouped together; total area	8,000	40%
(The power plant should be located as required for sufficient and economical service, although probably for a time it will house the shops of the School of Engineering.)		
(l) A garden suitably arranged and equipped for outdoor festivities, such as alumni gatherings, class functions, outdoor plays, etc. This could be so related to the Division of Liberal Arts and Sciences or the Administration group and enclosed by means of permanent fences and gates as to permit the segregation on special occasions of this feature of the general plan. It could be formed in spaces between the buildings or of areas in addition thereto.		

¶ 43. SECOND.

(m) Division of "Liberal Arts" and Sciences.

Ground
Area
Desired. Ratio of
Future
Growth.

1. "The College of Arts," Languages, History, Political Sciences, Mathematics, etc., lecture rooms, large and small, and recitation rooms, studies and dean's offices; one to three buildings; 20,000, if possible and at least 16,000 30%
2. Chemistry. Lecture rooms and laboratories, large and small, library, museums, supply rooms, offices, studies, etc. The total area of this department should be brought to 30,000, if possible, distributed in the proportions shown below, but must be at least . . . 24,000 30%
One building, or a group of three as provided in Sec. 37, with areas distributed as follows: For undergraduate instruction, one building, 12,000; for schools of Medicine, Dentistry and Pharmacy, one building, 9,000, and for Research and Administration, one building, 3,000.
3. Physics. Lecture rooms and laboratories, large and small, apparatus rooms, library, recitation rooms, offices, studies, etc.; one building 10,000 30%
4. Biology, for Botany, Zoology and Bacteriology; laboratories, lecture rooms, aquaria, small conservatory on roof, museums, library, apparatus rooms, studies, etc.; one building 12,000 30%
Botanical garden attached, having southerly slope or northerly shelter, and containing two acres, if possible, but at least 1 acre 50%
5. A building, available for the future use of a new department in this Division of Liberal Arts and Sciences 8,000 20%

- (n) Women's College Division: Group of two or three buildings for instruction (lecture halls, library, laboratories, offices, etc.), residence (dormitories, commons, club rooms, etc.) and gymnasium 20,000 20%
Provision will thus be made for all instruction, residence and physical training for women; other-

wise this division, as all others, requires relation to functions of common use (e.g., a, b, c, d, h, l).

Recreation grounds and garden are to be provided if possible. This division is to be placed on tracts A, B or A2.

- (o) Division of the Department of Philosophy (Graduate School); large and small lecture rooms, dean's offices, studies and about fifteen seminar rooms; one building

Ground
Area
Desired. Ratio of
Future
Growth.

5,000 30%

- (p) Technical Division:

1. Finance and Commerce (as in the Wharton School of the University of Pennsylvania). Lecture and class rooms, library, studies and offices, one building; 10,000, if possible, but at least

8,000 30%

2. Pedagogy; main building. (Lecture rooms, library, museum, rooms for manual training, domestic arts and economy, fine arts, etc.), model school for kindergarten, elementary and secondary instruction; one or two buildings

12,000 20%

3. Fine Arts. (a) Architecture (on the didactic side, technics being provided for in another institution, such as the Carnegie Technical Schools); Music and the History and Appreciation of Art. Lecture and class rooms, studies, concert and practice rooms, exhibition rooms for painting, sculpture and architectural casts; one building

10,000 20%

4. The School of Mines. A group of attached buildings, with total area of 80,000, if possible, but at least.....
The detailed requirements of this group and of the "School of Mines Building" portion to be first constructed are stated in full in Sec. 44.

50,000 50%

5. The School of Engineering; comprising the departments of Civil, Mechanical and Electrical Engineering; to be in one building or in three with close and convenient communication under cover. Civil and Mechanical departments; lecture and class rooms,

shops, drafting rooms, laboratories, library, museums, instrument rooms, society room, studies, offices, etc., 28,000 to 35,000, about one-third of which may be regarded as for shops, etc., two stories high, with no rooms over. Electrical department; lecture and class rooms, laboratories, drafting rooms, library, instrument rooms, society rooms, offices, studies, etc., 22,000 to 25,000, of which about one-third will be in two-story rooms as above; total, 60,000, if possible, but at least 50,000 50%

Chemical Engineering will be accommodated in these and the Chemistry Buildings.

All engineering buildings (p 4 and 5) should be grouped together.

(q) Professional Division:

1. Law; lecture and class rooms, court and study rooms, library, studies, offices, etc.; one building 8,000 30%
2. Medicine; group of six or eight buildings for hospitals, laboratories, lecture rooms, and clinics, dissecting rooms, museums, residence, etc. 60,000 20%
3. Pharmacy; lecture and class rooms, laboratories, museum, library, studies, offices, etc.; one building 10,000 30%
4. Dentistry; lecture, class and clinic rooms, laboratories, library, museum, studies, offices, etc.; one building 8,000 20%

¶ 44. THIRD.

The department of mining engineering, known as the "School of Mines" will provide for two general divisions of instruction, one in mining and geology and the other in metallurgy, assaying and ceramics. Both may be cared for in a single group of attached buildings, but the second requires a chimney about 100 feet high to carry away the flames and acid fumes from its kilns and furnaces. This chimney will not be required by the present or "School of Mines Building."

Three somewhat dissimilar elements will compose the required buildings; first, the ordinary structure for class, lecture and preparation rooms, private laboratories, administration offices, etc; second,

the laboratory structure, not over fifty feet in external width and preferably about forty-six, open full width and lighted on both sides, one laboratory affording communication with another if need be and the length of single laboratories being not less than fifty feet (preferably not less than seventy-five); third, three sheds for coal washing and ore dressing and ceramics (for the departments of metallurgy, assaying and ceramics, respectively) which may have the width of the laboratory building, but require twice their length and must have a floor with a pitch of from one in twelve to one in ten to afford proper flow of water.

Story heights will be, from floor to floor, not less than fifteen feet. Largest lecture rooms save in present section, or "School of Mines Building", will be two stories in height, but all other rooms, including laboratories and sheds will be one story high. There is no objection to supporting posts in laboratories and sheds, but no rooms may be placed over the latter. The group may well be so located that the shed floors will conform to the natural slope of the ground.

From two-thirds to three-fourths of the ground area assigned to this group will be occupied by its laboratories and sheds. The latter will be attached to the former, extending at right angles from the side of a laboratory or, preferably, attached to its end.

The type of plan arrangement preferred by this department has as its nucleus or chief feature a class room and administrative building from which, extending at right angles, will be laboratory wings, as indicated in the sketch appended to this program. This plan is believed to offer a better length and more convenient number of laboratory wings than would one with either five or three wings yielding the same total area. Should the minimum ground area of 50,000 square feet be employed, its 50% expansion should be in a direction to complete this full plan, and should the maximum area of 80,000 be realized, its 50% expansion could well add both number and length to the laboratories.

The School of Mines Building, (to wit, that section of the above group which is first to be constructed). The required rooms and their capacities, relations, etc., are given below. The appended sketch shows a plan in which their arrangement is acceptable (see, however, the program, Sec. 13). In this plan the future extension of the "head house" would require alteration of spaces opposite stairways into corridors and laboratory dark rooms, while, in general, the laboratory space would extend into the head house as far as elevator wall.

While this building is to be designed for the uses of the School of Mines, the entire first story will be occupied for a time by the

University administration and the College of Arts. Therefore, while structural lines and members will be determined by ultimate requirements, temporary uses will call for partitions and other lighter constructions of a temporary character. The building is to have a service elevator and suitable toilets for officers, instructors, women and students. A cellar will underlie the entire building, but is not available for any of the above space requirements. No attic is contemplated.

All areas are stated in square feet, those for the School of Mines Building covering only the actual floor space of the rooms concerned. These are stated at a minimum and should in no case be reduced. It is believed that they can, in total, be increased by as much as 10%.

Requirements of the building, by stories, are as follows:

BASEMENT. Assaying laboratory, 2,000 to 2,400; metallurgical laboratory, 1,000; furnace room, 700; instructors' rooms, two, 400; space for storage and power plant, 700; total, 4,800 to 5,200.

FIRST STORY. Chancellor's suite, consisting of reception room, office, private office and toilet; lecture rooms, one large and as many of medium size as space will permit; instructors' rooms as allowed; total, 4,800.

SECOND STORY. Mining laboratory, 2,000; mining lecture room, 1,000; instrument room attached to one of the two foregoing, 250; geological laboratory, 700; geological lecture room, 700; instructors' rooms, two, 550; (if possible, also a storeroom attached to the geological laboratory or lecture room and either an additional instructors' room or two of large size); total, exclusive of the last named, 5,200.

THIRD STORY. Dean's suite, consisting of reception room, 250, office, 200, toilets for each, private library, 700, private laboratory, 700, with dark room included or attached, 100; reception room, office, library and private laboratory to communicate; Petrographical lecture room, to connect, if possible, with dean's suite, 1,000, with room for instructor and preparation attached, 250; Petrographical laboratory, 2,000; total, 5,200.

COST. The cost of the School of Mines Building is limited to one hundred seventy-five thousand dollars (\$175,000). This sum is to cover the cost of the building complete in all its parts and fit for its uses, including a plant for the generation of heat, light, ventilation and (elevator) power; plumbing and drainage; grading and walks immediately about the building and the fees of all architects and

other experts engaged in its design and supervision. But the said sum will not include the cost of furniture, furnishings, apparatus or equipment.

CONSTRUCTION. The building is to be designed for fireproof construction and external finish in vitrified brick with ornament in terra cotta or stone. Workmanship and materials are to be of the best of their kinds, ornamentation and finish everywhere of the simplest.

CUBAGE. Assuming approximately thirty cents as the lowest unit cost, per cubic foot, consistent with safety, the Committee restricts the volume of the designs for this building to six hundred thousand (600,000) cubic feet. This cubage will be computed as prescribed in Sec. 33 of the program.

CAPACITY. The entire building must provide total net floor area of at least the quantity required (20,000 square feet) and should contain a total of 22,500.

DEBARMENT. The above-named maximum volume of 600,000 cubic feet and minimum area of 20,000 square feet net constitute the limits referred to in Sec. 31 of the program.

Part Five • APPOINTED ARCHITECT

¶ 45. THE ARCHITECT APPOINTED AS HEREIN PROVIDED shall so revise his competitive design of the School of Mines Building as to meet the further requirements of the Committee, and upon the basis of this revised design shall prepare full working drawings and specifications of this building, and shall, during its construction, have full and usual authority of architect of the work under and in accordance with the terms of Sec. 48 of the program.

¶ 46. IT IS IMPERATIVE THAT CONTRACTS FOR THE CONSTRUCTION of the School of Mines Building be executed by June 1st. It is therefore impossible to allow for the preparation of its working drawings and specifications more than six weeks following the award, which the Committee intends to make not later than April 11th. The continuance of the appointment of the architect is therefore made contingent upon his completion of working drawings and specifications within six weeks of the time of such award, it being understood that he will not be required to make any re-study of the competitive design which would cause actual delay in the preparation of such working drawings and specifications and that failing to complete them within the said six weeks, the Committee may cancel his appointment. Should a re-study, which is required by the Committee, be claimed by the appointed architect to cause such delay, the propriety of this claim will be determined by the adviser acting under the terms of Sec. 34.

¶ 47. IT IS STIPULATED THAT THE APPOINTED ARCHITECT shall, at his own cost, make such revision and alteration of the working drawings and specifications as may be necessary to insure the proper construction and completion of the work as described in and within the limit of cost (\$175,000) as fixed by this program.

¶ 48. THE ARCHITECT APPOINTED FOR THE WORK SHALL render services and receive compensation in accordance with the statement of professional practice and schedule of charges of the American Institute of Architects as revised in Cleveland, October 1903, provided, however, that his charge upon furniture and furnishings, placed in his hands by the Committee to be designed or selected by him, shall not exceed 10 per cent., and upon all other work, shall be 5 per cent. (5%); and provided also that should expert engineering serv-

ice be required, the fee therefor shall not exceed 5 per cent. (5%). Fees shall be computed upon the cost of the work committed as aforesaid to the charge of the appointed architect.

¶ 49. THE PAYMENT ASSURED TO COMPETITORS SHALL, in the case of the appointed architect, be a payment on account of his fee as architect of the work, as provided in Sec. 29.

¶ 50. IT IS STIPULATED THAT THE APPOINTED ARCHITECT, if not resident in Pittsburgh, shall at his own cost be represented by a resident deputy with whom the Committee may deal directly, as with the architect, whose qualifications shall be satisfactory to the Committee and who shall give to the work, as the deputy of the architect, the supervision usually and properly required of the architect. And in such case, the traveling expenses chargeable to the Committee by the architect shall be limited to railroad and hotel expenses incurred by him in actual supervision of the work.

¶ 51. IF, IN THE JUDGMENT OF THE ARCHITECT, THE assistance of engineers or other experts becomes necessary, their several appointments shall be subject to the Committee's approval. But the architect shall be chief in authority over such engineers.

¶ 52. IT IS THE HOPE OF THE COMMITTEE THAT THE entire design may be executed by its author, but the School of Mines Building, as described in this program is the only work for which the architect, selected as aforesaid, is engaged and appointed under the terms of this program, and upon its completion his engagement shall cease and determine.

¶ 53. SHOULD A SECOND OR OTHER BUILDINGS BE placed in the hands of the architect appointed for the School of Mines Building, he will be authorized to re-study his competitive plan of the entire group, and will for this service receive a fee of five hundred dollars (\$500.00) in addition to any fees due him upon the said additional building or buildings.

¶ 54. THE APPOINTED ARCHITECT SHALL NOT IN ANY way transfer, assign or bequeath his commission without the approval and consent of the Committee.

¶ 55. ALL DRAWINGS AND SPECIFICATIONS OF THE School of Mines Building, and their copies, as instruments of service, are and shall remain the property of the architect. But one copy of

the specifications and of each floor plan of this building, with dimensions of all rooms as actually and finally built shall be provided by the architect for the Committee, said copies to remain permanently on the Committee's files, it being understood that they are to be used only in connection with future enlargements of this building.

¶ 56. THIS PROGRAM APPROVED THIS FIFTEENTH DAY of February, nineteen hundred and eight, by the Executive Committee.

WARREN P. LAIRD,
Adviser.

GEORGE H. CLAPP,
Chairman.

S. B. LINHART,
Secretary.

NOTE.—This book incorporates the material which, in the form of a program, supplementary notes of information, blue prints and photographs, was provided for competitors.

PHOU









AMERICAN INSTITUTE OF ARCHITECTS.

PROFESSIONAL PRACTICE OF ARCHITECTS, AND SCHEDULE OF USUAL AND PROPER MINIMUM CHARGES.

The architect's professional services consist in making the necessary preliminary studies, working drawings, specifications, large scale and full size details, and in the general direction and supervision of the work, for which the minimum charge is five per cent. upon the cost of the work.

For new buildings, costing less than ten thousand dollars, and for furniture, monuments, decorative and cabinet work, it is usual and proper to charge a special fee in excess of the above.

For alterations and additions to existing buildings, the fee is ten per cent. upon the cost of the work.

Consultation fees for professional advice are to be paid in proportion to the importance of the questions involved.

None of the charges above enumerated covers alterations and additions to contracts, drawings and specifications, nor professional or legal services incidental to negotiations for site, disputed party walls, right of light, measurement of work, or failure of contractors. When such services become necessary, they shall be charged for according to the time and trouble involved.

Where heating, ventilating, mechanical, electrical and sanitary problems in a building are of such a nature as to require the assistance of a specialist, the owner is to pay for such assistance. Chemical and mechanical tests, when required, are to be paid for by the owner.

Necessary traveling expenses are to be paid by the owner.

Drawings and specifications, as instruments of service, are the property of the architect.

The architect's payments are due as his work progresses in the following order: Upon completion of the preliminary sketches, one-fifth of the entire fee; upon completion of working drawings and specifications, two-fifths; the remaining two-fifths being due from time to time in proportion to the amount of work done by the architect in his office and at the building.

Until an actual estimate is received, the charges are based upon the proposed cost of the work, and payments are received as installments of the entire fee, which is based upon the actual cost to the owner of the building or other work, when completed, including all fixtures necessary to render it fit for occupation. The architect is entitled to extra compensation for furniture or other articles purchased under his direction.

If any material or work used in the construction of the building be already upon the ground or come into the owner's possession without expense to him, its value is to be added to the sum actually expended upon the building before the architect's commission is computed.

In case of the abandonment or suspension of the work, the basis of settlement is as follows: Preliminary studies, a fee in accordance with the character and magnitude of the work; preliminary studies, working drawings and specifications, three-fifths of the fee for complete services.

The supervision of an architect (as distinguished from the continuous personal superintendence which may be secured by the employment of a clerk of the works) means such inspection by the architect, or his deputy, of work in studios and shops, or of a building or other work in process of erection, completion or alteration, as he finds necessary to ascertain whether it is being executed in conformity with his drawings and specifications or directions. He is to act in constructive emergencies, to order necessary changes and to define the true intent and meaning of the drawings and specifications, and he has authority to stop the progress of the work and order its removal when not in accordance with them.

On buildings where the constant services of a superintendent are required, a clerk of the works shall be employed by the architect at the owner's expense.

As revised at Cleveland Convention, October, 1903.

GLENN BROWN,

Secretary, A. I. A.,

The Octagon, Washington, D. C.

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PLAN OF PROPOSED LOCATION
OF THE
WESTERN UNIVERSITY OF PENNSYLVANIA
OAKLAND DISTRICT PITTSBURG, PA.

SCALE 1" = 400'

FEB. 1ST 1908.

DRAWING 8

Being part of the program of the architectural
competition of 1908



HARROP, HOPKINS AND TAYLOR
CIVIL ENGINEERS
PITTSBURG, PA.

» » » A P P E N D I X » » »

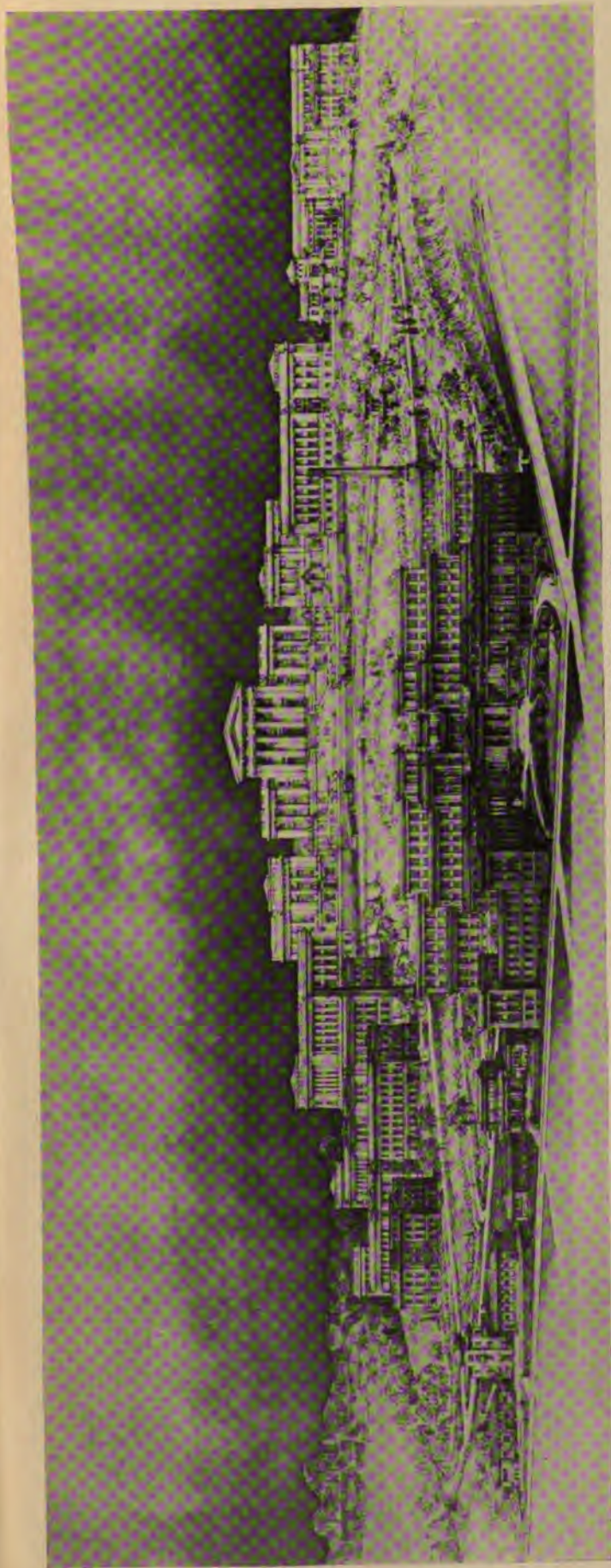
ILLUSTRATING THE PREMIATED
DESIGN SELECTED FROM AMONG SIXTY-
ONE SUBMITTED IN COMPETITION.
MESSRS. PALMER AND HORNBOSTEL,
ARCHITECTS.



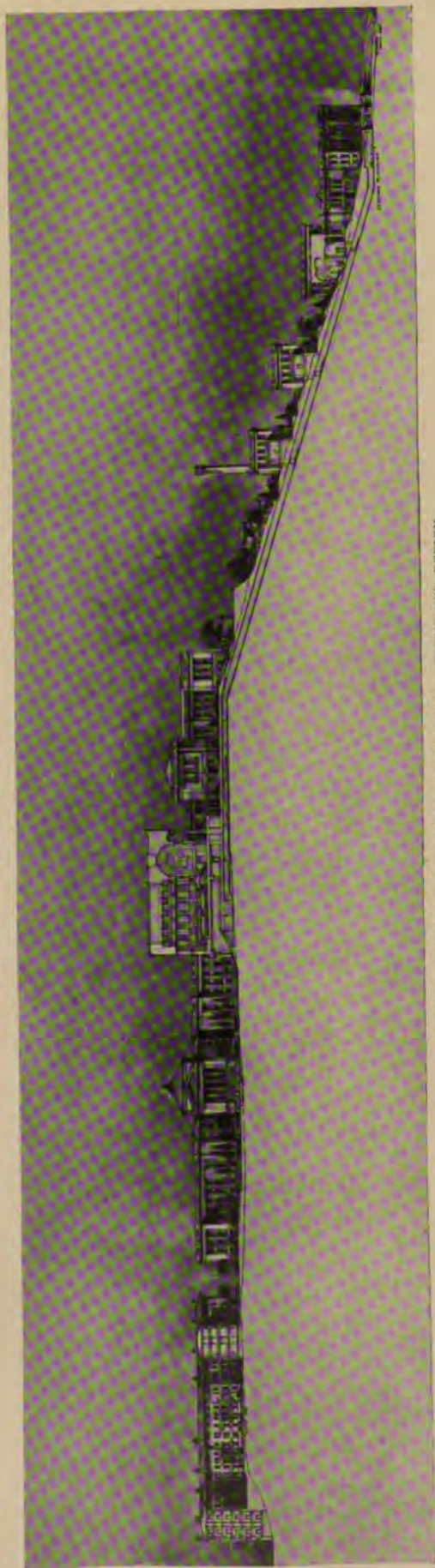
COMPETITION OF THE
WESTERN UNIVERSITY
OF PENNSYLVANIA

GROUP PLAN
SCALE 1/4" = 100' OR 1" = 400'

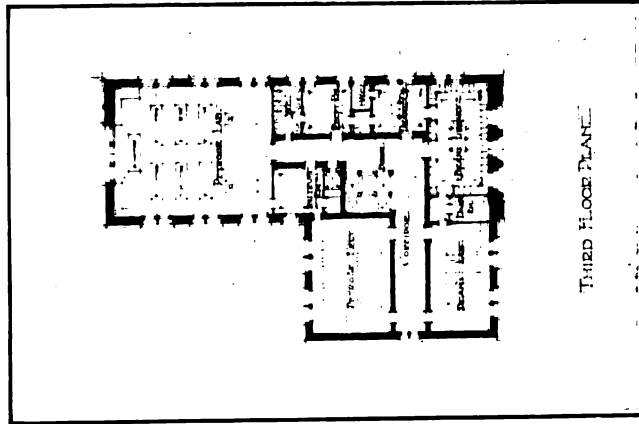
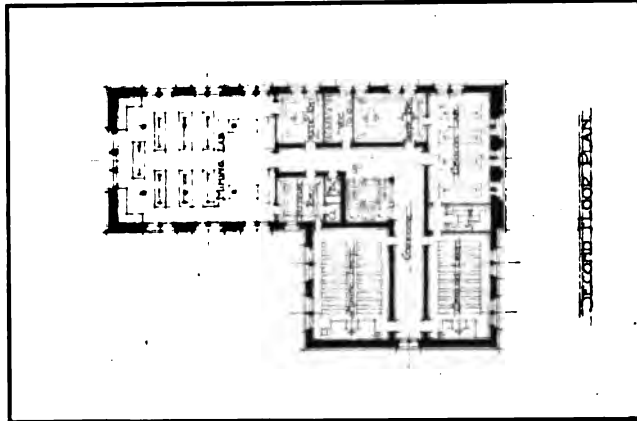
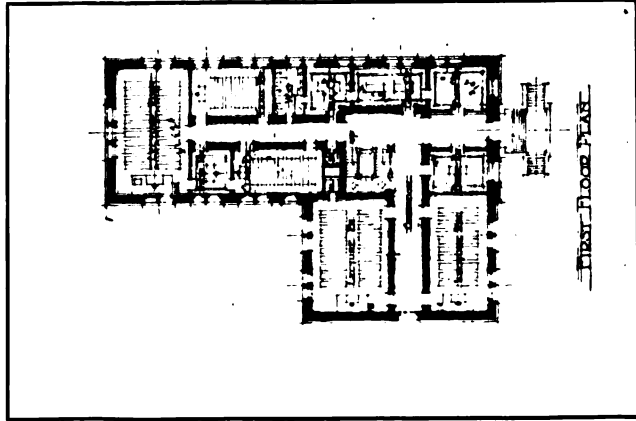
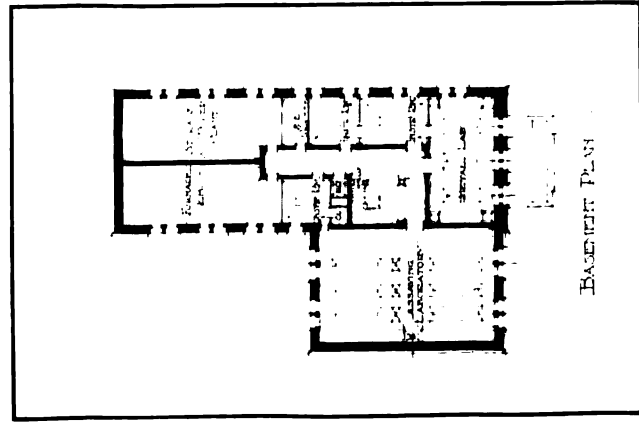
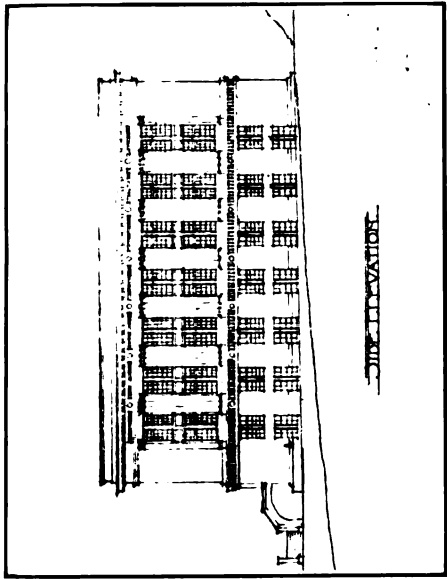
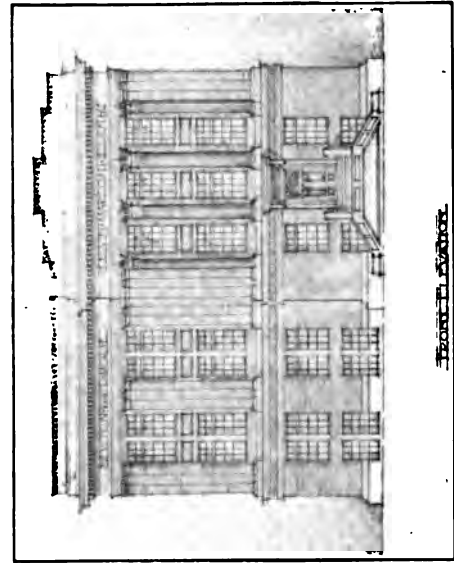
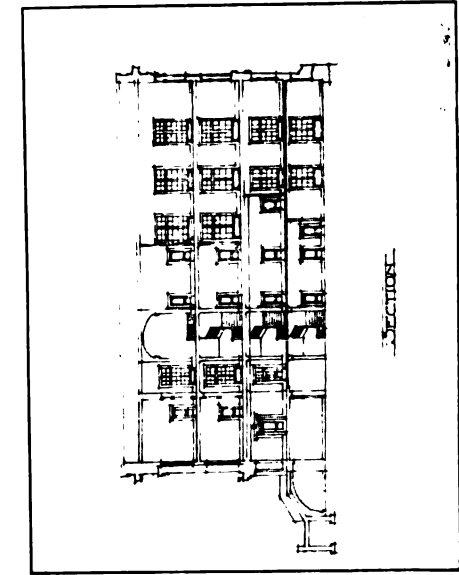
GROUP PLAN.—PREMIATED DESIGN



ELEVATION TOWARD THE SOUTHEAST.—PREMIATED DESIGN



SECTION ON THE PRINCIPAL AXIS OF THE PLAN.—PREMIATED DESIGN



DRAWINGS OF THE SCHOOL OF MINES BUILDING.—PREMIATED DESIGN.



